

CLAIMS

What is claimed is:

1. A nonwoven card for the production of nonwoven fabric of fiber material,
 - with a drawing-in means (2,4),
 - with a licker-in (6),
 - with a main cylinder (16), and
 - with at least one fiber doffer means (18) engaged with the main cylinder (16), for doffing a fibrous web,
 - the drawing-in means (2,4) transferring the fiber material to the licker-in (6) and a transfer means (8) transferring the fiber material at least double from the licker-in (6) to the main cylinder (16) via rollers (10, 10a, 10b, 10c, 12, 12a, 12b, 14),

characterized in

that at least one of the rollers (10, 10a, 10b, 10c, 12, 12a, 12b, 14) of the transfer means (8) is a random roller (10, 10a, 10b, 10c) rotating in the same direction as the main cylinder (16) and the licker-in (6).

2. The nonwoven card according to claim 1, characterized in that the transfer means (8) has only a single roller (10, 10a, 10b, 10c, 12, 12a, 12b) between the licker-in (6) and the main cylinder (16) on at least one or each transfer path.

3. The nonwoven card according to claim 2, characterized in that the only roller is a random roller (10, 10a, 10b, 10c).
4. The nonwoven card according to claim 1, characterized in that a random roller (10, 10a, 10b, 10c) is arranged in combination with a transfer roller (12, 12a, 12b) on at least one transfer path, the random roller (10, 10a, 10b, 10c) being in engagement with the licker-in (6).
5. The nonwoven card according to claim 1, characterized in that the transfer means (8) comprises at least three transfer rollers (10, 10a, 10b, 10c, 12, 12a, 12b, 14) at least two of which are engaged with the licker-in (6) and the main cylinder (16), respectively.
6. The nonwoven card according to claim 5, characterized in that the at least three rollers (10, 10a, 10b, 10c, 12, 12a, 12b, 14) are in mutual engagement.
7. The nonwoven card according to claim 5, characterized in that the transfer means (8) comprises at least three rollers (10a, 10b, 10c) being respectively engaged at least with the licker-in (6) and the main cylinder (16).
8. The nonwoven card according to claim 7, characterized in that the neighboring rollers (10a, 10b, 10c) of the transfer means (8) are in mutual engagement.

9. The nonwoven card according to one of claims 5 to 8, characterized in that all the rollers of the transfer means (8) are random rollers (10, 10a, 10b, 10c).
10. The nonwoven card according to one of claims 1 to 9, characterized in that the at least one random roller (10, 10a, 10b, 10c) comprises carding elements (24,26).
11. The nonwoven card according to claim 10, characterized in that the carding elements (24,26) consist of at least one pair of worker/clearer rollers (28,30) or of carding plates (24).
12. A method for the production of nonwoven fabric of fiber material by means of a nonwoven card by supplying the fiber material via a drawing-in means (2,4) to a licker-in (6), by transferring the fiber material from the licker-in (6) to a main cylinder (16) for carding the fiber material, and by doffing at least one fibrous web from the main cylinder (16),

c h a r a c t e r i z e d b y

an at least double transfer of the fiber material via several transfer paths from the licker-in (6) to the main cylinder (16) by using at least one random roller (10, 10a, 10b, 10c) on at least one transfer path.